SONY

FM/AM
Clock Radio

Operating Instructions

DREAM MACHINE

Dream Machine is a trademark of Sony Corporation.

NO POWER
NO PROBLEM

No Power No problem is a trademark of Sony Corporation.

ICF-C705

* 3 2 8 8 9 7 6 4 2 * (1)

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To reduce the risk of fire, do not cover the ventilation of the apparatus with newspapers, tablecloths, curtains, etc. And do not place lighted candles on the apparatus.
The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Class II equipment symbol
This symbol indicates that the unit has a double insulation system.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For the state of california, USA only

Perchlorate Material -special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate
Perchlorate Material: Lithium battery contains perchlorate

WARNING
• Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
• Replace the battery for the clock backup with a Sony CR2032 lithium battery. Use of another battery may present a risk of fire or explosion.
• Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.
• Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.
• Dispose of used battery promptly. Keep away from children.

Features

• Dual alarm FM/AM PLL(phase locked loop) synthesized clock radio.
• 15 station presets (10 FM / 5 AM).
• Various types of alarms - radio, buzzer(2) and melody(5).
• Built-in audio cable for connecting optional components such as a digital music player, etc.
• Automatic time set - preinstalled current time.
• Automatic Daylight Saving Time/Summer Time adjustment.
• DST button to switch automatic/manual adjustment for Daylight Saving Time.
• Nap timer (Count down timer).
• 100 year calendar and DATE button to display month, day and year.
• Triple time display : main display for clock, and two sub-displays for alarms.
• Brightness control (High/Middle/Low).
• No power No Problem alarm system.

Troubleshooting

Should any problem occur with the unit, make the following simple checks to determine whether or not servicing is required.
If the problem persists, consult your nearest Sony dealer.

The clock flashes "AM 12:00" due to a power interruption.
• The battery is low. Replace the battery. Remove the old battery and install a new one.

The radio, buzzer and melody alarm does not sound at the preset alarm time.
• Has the desired radio, buzzer and melody alarm been activated? (i.e., Does the ALARM A (or B) display light up?)
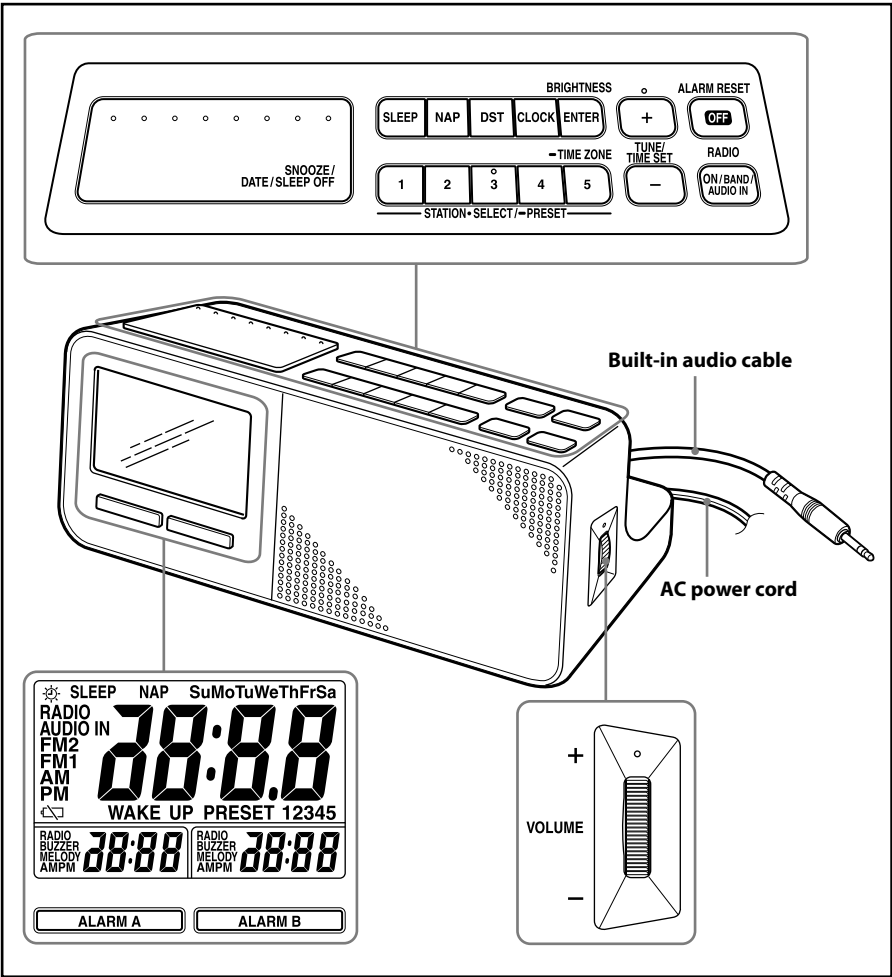
The radio alarm is activated but no sound comes on at the preset alarm time.
• Has **VOLUME** been adjusted?

Precautions

• Operate the unit on the power source specified in "Specifications".
• The nameplate and important information concerning safety are located on the bottom exterior.
• To disconnect the power cord (mains lead), pull it out by the plug, not the cord.
• The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
• Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on a surface (a rug, blanket, etc.) or near materials (a curtain) that might block the ventilation holes.
• Should any solid object or liquid fall into the unit, unplug the unit and have it checked by a qualified personnel before operating it any further.
• To clean the casing, use a soft cloth dampened with a mild detergent solution.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Specifications

Time display
12-hour System

Frequency range

Band	Frequency	Channel step
FM	87.5 – 108 MHz	0.1 MHz
AM	530 – 1 710 kHz	10 kHz

Speaker
Approx. 6.6 cm (2 $^5/_8$ inches) dia., 8 Ω

Power output
700 mW (at 10% harmonic distortion)

Input
Built-in audio cable with stereo-mini plug: minimum input level 245 mV, impedance 47 kΩ

Power requirements
120 V AC, 60 Hz

Dimensions
Approx. 192.5 × 92.6 × 88.5 mm (w/h/d)
(7 $^5/_8$ × 3 $^5/_4$ × 3 $^1/_2$ inches) incl. projecting parts and controls

Mass
Approx. 633 g (1 lb 6.3 oz) incl. CR2032 battery

Design and specifications are subject to change without notice.

This unit includes a preinstalled Sony Lithium battery (CR2032) as back-up power source for the clock, which is preset to EST/EDT (Eastern Standard Time/Daylight Time) at the factory. And this battery is considered part of the product.

Built-in audio cable

AC power cord

※ There is a tactile dot beside VOLUME to show the direction to turn up the volume. A tactile dot also on TUNE/TIME SET + and STATION SELECT/PRESET 3 button.
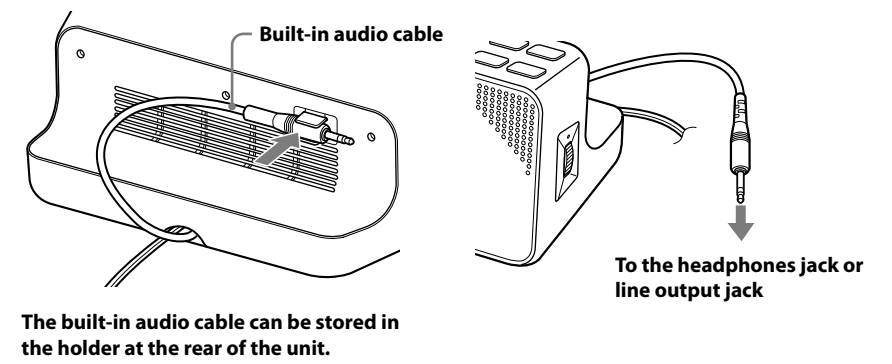
A

B

Built-in audio cable

To the headphones jack or line output jack

The built-in audio cable can be stored in the holder at the rear of the unit.
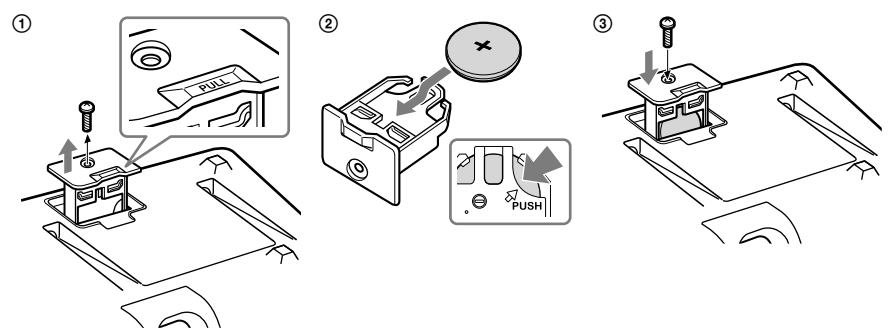

About the backup battery

To keep good time, as backup power source, this unit has one CR2032 battery inside of the unit in addition to the house current.
The battery keeps the clock and the alarm operating in the event of a power interruption.

Knowing when to replace the battery

When the battery becomes weak, "▭" appears in the display.
In the event of a power interruption when the battery is weak, current time and alarm functions will be initialized.

When the battery is consumed, even if "▭" doesn't appear in the display, in the event of a power interruption, alarm and NAP timer buzzer sounds may become extremely small, and the display may become weak. In this case, replace the battery.

Replace the battery with a Sony CR2032 lithium battery. Use of another battery may present a risk of fire or explosion.

Installing and replacing the backup battery

1 Keep the AC plug connected to the AC outlet, remove the screw that secures the battery compartment at the bottom of the unit using a screwdriver, and pull the battery compartment marked PULL. (See fig. **A**-①)

2 Insert a new battery in the battery compartment with the ⊕ side facing up.
To remove the battery from the battery compartment, push it out from the side marked PUSH. (See fig. **A**-②)

3 Insert the battery compartment back into the unit and secure it with the screw.
(See fig. **A**-③)

4 When you are replacing the battery, press RADIO ON/BAND/AUDIO IN to turn "▭" indicator off in the display.

Note
If you replace the battery, do not disconnect AC plug from AC outlet. Otherwise, the 100 year calendar, current time, alarm and station presets will be initialized.

NOTES ON THE LITHIUM BATTERY
• Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.
• Wipe the battery with a dry cloth to assure good contact.
• Be sure to observe the correct polarity when installing the battery.
• Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.

Battery Warning
When the unit will be left unplugged for a long time, remove the battery to avoid undue battery discharge and damage to the unit from battery leakage.

Setting the clock for the first time

This unit is preset to the current date and time at the factory, and is powered by the back up battery. All you need to do the first time is just plug it in and select your time zone.

1 Plug in the unit.
"month and date" (about 1 second) → "year" (about 1 second) → "the current EST/EDT (Eastern Standard/Daylight Time)" appear in the display.

2 Press TIME ZONE until a beep sounds.
Area number "2" appears in the display.
If you live in the Eastern Time zone, you do not need to adjust the area setting.

Area number	Time zone
1	Atlantic Standard/Daylight Time
2 (default)	Eastern Standard/Daylight Time
3	Central Standard/Daylight Time
4	Mountain Standard/Daylight Time
5	Pacific Standard/Daylight Time
6	Yukon Standard/Daylight Time
7	Hawaiian Standard/Daylight Time

3 Press TUNE/TIME SET + or – repeatedly until the desired number appears.

4 Press ENTER.

Notes
• During shipment or first use, a clock error may occur. In this case, refer to "Setting the clock and date" to set the correct time.
• While setting the time zone, you must perform each step within 65 seconds, or the time zone setting mode will be cancelled.

When daylight saving time (summer time) begins

The following models employ Automatic Daylight Saving Time/Summer Time adjustment. "☀" appears in the display during daylight saving time (summer time).
Automatic Daylight Saving Time adjustment is based on local time.
• Daylight saving time begins at: 2:00 AM on the second Sunday of March.
• Standard time begins at: 2:00 AM on the first Sunday of November.

To cancel Automatic DST/Summer Time adjustment and to set DST/Summer Time display manually

The Automatic DST/Summer Time adjustment can be cancelled.
Press and hold DST until a beep sounds while the clock is displayed.
"auto → OFF" appears in the display to show that Automatic DST/Summer Time adjustment has been cancelled. The display returns to the clock.

Notes
• The change timing of Automatic DST/Summer Time adjustment employed by the unit (see above) is subjected to variation by circumstances and the law in each country/region. In such a case, cancel the Automatic DST/Summer Time adjustment and set DST display manually as necessary. Customers living in a country/region that does not use the daylight saving time (summer time) must cancel Automatic DST/Summer Time adjustment before using the unit.
• To activate Automatic DST/Summer Time adjustment again, press and hold DST until a beep sounds. "auto → On" appears in the display to show that Automatic DST/Summer Time adjustment has been activated. The display returns to the clock.
• To change the display to the daylight saving time (summer time) manually, see "To change the display to the daylight saving time (summer time) indication."

Setting the clock and date

To change the setting manually, follow the procedure from step 1.

1 Plug in the unit.
2 Press CLOCK until a beep sounds.
The year will start to flash in the display.
3 Press TUNE/TIME SET + or – until the correct year appears in the display.
4 Press ENTER.
5 Repeat steps 3 and 4 to set the month, day and time.
After setting the time, two short beeps sound and the clock starts from 0 seconds.
• Pressing and holding TUNE/TIME SET + or – changes the year, month or day rapidly.
When setting the current time, time changes rapidly by 1 minute-increments up to 10 minutes, and then by 10 minute-increments.
• While setting the clock, you must perform each step within 65 seconds, or the clock setting mode will be cancelled.
• The 100 year calendar is installed in this unit (January 1, 2008 - December 31, 2107). When the date is set, a day of the week is automatically displayed.
Su = Sunday, Mo = Monday, Tu = Tuesday, We = Wednesday, Th = Thursday, Fr = Friday, Sa = Saturday

To display the year and date
Press SNOOZE/DATE/SLEEP OFF once for the date, and within about 3 seconds press it again for the year.
The display shows the date or year for about 3 seconds and then changes back to the current time.
If you connect the AC plug to AC outlet while this unit is powered from the backup power source, the current date and time appears in the following order. (It is the same as when the unit is powered on after power failure.)
"month and date" (about 1 second) → "year" (about 1 second) → "current time"

To change the display to the daylight saving time (summer time) indication
Change the daylight saving time (summer time) adjustment setting according to the following procedures if you have cancelled the Automatic DST/Summer Time adjustment.

Press DST.
"☀" appears in the display and the time indication changes to daylight saving time (summer time).
To deactivate the daylight saving time (summer time) adjustment, press DST again.

Setting the brightness of the display

Three levels of brightness are available by pressing BRIGHTNESS/ENTER.

High (default) → Middle → Low ⌐

Playing the radio
—Manual tuning

1 Press RADIO ON/BAND/AUDIO IN to turn on the radio.
The display shows the band and frequency for a few seconds and then changes back to the current time.
2 Press RADIO ON/BAND/AUDIO IN repeatedly to select the desired band.
Each press changes the band as follows:

⌐→ AM → FM1 → FM2 → AUDIO IN ⌐

When using FM1 or FM2 preset mode, you may listen to the radio on either mode. (See "Presetting your favorite station.")

3 Use TUNE/TIME SET + or – to tune into the desired station.
The FM channel step is set to 0.1 MHz and the AM channel step is set to 10 kHz.
Two beeps sound when the minimum frequency of each band is received during tuning.
4 Adjust volume using VOLUME.

• To turn off the radio, press RADIO OFF/ALARM RESET.
• To check the station being received, press TUNE/TIME SET + or – or RADIO ON/BAND/AUDIO IN lightly. The display shows the band and frequency for a few seconds and then changes back to the current time.

Presetting your favorite station
—Preset tuning

You can preset up to 10 stations in FM (5 stations in FM1, 5 stations in FM2), and 5 stations in AM.

Presetting a station

1 Follow steps 1 to 4 in "Playing the radio" and manually tune into the station you wish to preset.
2 Hold down the desired STATION SELECT/PRESET 1 to 5 button until you hear two beeps.
Example: To preset AM 1 260 kHz onto preset 2 button.

The display shows the frequency for a few seconds and then changes back to the current time. The preset button number will remain.
To preset another station, repeat these steps.
To change the preset station, tune into the desired station and hold down the STATION SELECT/PRESET 1 to 5 button until you hear two beeps. The new station will replace the previous station on the preset button.

Tuning into a preset station

1 Press RADIO ON/BAND/AUDIO IN to turn on the radio.
2 Press STATION SELECT/PRESET 1 to 5 where the desired station is stored.
3 Adjust volume using VOLUME.
After a few seconds, the display will return to the current time but the preset button number will remain.

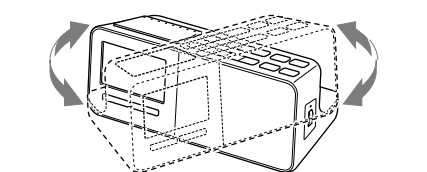
Improving the reception

FM:
The AC power cord functions as an FM antenna.
Extend the AC power cord fully to increase reception sensitivity.
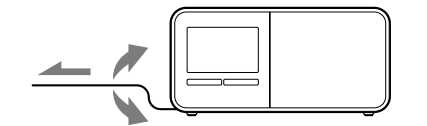
AM:
Rotate the unit horizontally for optimum reception. A ferrite bar AM antenna is built into the unit.

Do not operate the unit over a steel desk or metal surface, as this may cause interference of reception.

Listening to the sound from a connected optional component (See fig. **B**)

1 Connect the built-in audio cable with the stereo-miniplug on the rear of the unit to the line output jack or headphones jack on the optional component (e.g., portable music player).
2 Press RADIO ON/BAND/AUDIO IN to turn on the radio.
3 Press RADIO ON/BAND/AUDIO IN repeatedly to select "AUDIO IN."
"AUDIO IN" appears in the display.
4 Play the optional component connected to the unit's built-in audio cable.
5 Adjust the volume using VOLUME and the connected component's volume.
Adjust the volume so that the sound is not distorted.

To turn off the sound from the optional component, press RADIO OFF/ALARM RESET, and then turn off the optional component.

Notes
• Connect the audio cable firmly to prevent a malfunction.
• Keep digital music players away from the speakers.
• If you increase the volume too much, loud sound may occurs when switching to the radio.
• Confirm the volume, when you remove the connected component from this unit to listen by headphones. Otherwise, high volume may affect your hearing.
• AUDIO IN cannot be set for the alarm sound.

Setting the alarm

The dual alarm function allows you to set two alarm programs (ALARM A and ALARM B).
The alarm time can be set for each program and the alarm sound is selectable from RADIO, BUZZER and MELODY.

Notes
• Before setting the alarm, make sure to set the clock. (See "Setting the clock and date".)
• The factory setting alarm time is "PM 12:00."
• To set the radio alarm, first preset your favorite station and adjust the volume. (See "Presetting your favorite station".)
• While setting the alarm, you must perform each step within 65 seconds, or the alarm setting mode will be cancelled.

To set the alarm

1 Press ALARM A or B until a beep sounds.
The hour flashes in the display.
Example: Display window when you set alarm A (radio alarm mode).

2 Press TUNE/TIME SET + or – repeatedly until the desired hour appears.
To set the hour rapidly, hold down TUNE/TIME SET + or –.
3 Press ENTER.
A beep sounds and the minute flashes in the display.
4 Repeat step 2 to set the minute.
A beep sounds and the alarm time setting is entered.
5 Press TUNE/TIME SET + or – repeatedly until the desired alarm mode flashes.
You can choose from "RADIO," "BUZZER" and "MELODY" for the mode. Set the alarm mode as follows:
- RADIO: see "**A** Setting the radio alarm."
- BUZZER: see "**B** Setting the buzzer alarm."
- MELODY: see "**C** Setting the melody alarm."

Note
AUDIO IN cannot be set for the alarm sound.

A Setting the radio alarm

1 Perform steps 1 to 5 in "To set the alarm" and select "RADIO."
Example: The "RADIO", preset number and band flash, and the frequency of the preset station is showed in the display.

2 Press RADIO ON/BAND/AUDIO IN to select the desired band.
Each press changes the band as follows:

⌐→ AM → FM1 → FM2 ⌐
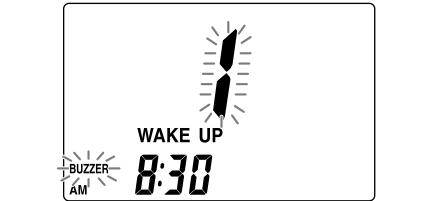
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3 Press STATION SELECT/PRESET 1 to 5 to select the desired wake-up station.
4 Press ENTER.
Two beeps sound and the radio alarm setting is entered.

Note
The wake-up station does not sound at these steps.

B Setting the buzzer alarm

1 Perform steps 1 to 5 in "To set the alarm" and select "BUZZER."
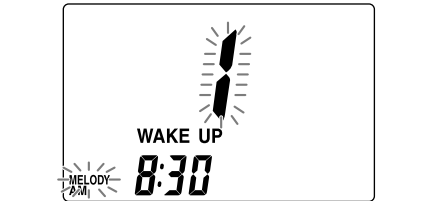The selected buzzer sounds for about 2 seconds and the display as follows:

2 Press STATION SELECT/PRESET 1 or 2 to select the desired buzzer sound.
The selected buzzer sounds about 2 seconds.
3 Press ENTER.
Two beeps sound and the buzzer alarm setting is entered

Note
The volume cannot be set for the buzzer alarm.

C Setting the melody alarm

1 Perform steps 1 to 5 in "To set the alarm" and select "MELODY."
The selected melody sounds for about 2 seconds and the display as follows:

2 Press STATION SELECT/PRESET 1 to 5 to select the desired melody*.
The selected melody sounds for about 2 seconds.
*You can select from the following 5 melodies.
1 – "Morning" from "Peer Gynt Suite No.1," by Edvard Grieg, Op. 46
2 – "Spring" from "The Four Seasons" by Antonio Lucio Vivaldi
3 – "Ode to Joy" from "Symphony No.9" by Ludwig van Beethoven, Op.125
4 – "Danse des Mirlitons" from "The Nutcracker," by Peter Ilyich Tchaikovsky, Op.71
5 – "For Elise" by Ludwig van Beethoven, WoO.59
3 Press ENTER.
Two beeps sound and the melody alarm setting is entered.

Note
The volume cannot be set for the melody alarm.

• To cancel the alarm setting mode, press RADIO OFF/ALARM RESET.
• CLOCK, DST and TIME ZONE are unavailable while the alarm sounds or snooze function is turned on.

To activate the alarm

1 Set both alarm times for ALARM A or B. (See "To set the alarm".)
2 Press ALARM A or B.
The alarm time for ALARM A or B will be displayed.

Notes
• If a second alarm sounds during a first (or the snooze function is active), the second alarm takes priority.
• If the same time is set for both alarms (ALARM A and B), ALARM A takes priority.
• The alarm function works as usual at the beginning and end day of the daylight saving time (summer time). While the Automatic DST/Summer Time adjustment is set, as a result, if the alarm is set at a time skipped when the daylight saving time (summer time) begins, the alarm is skipped, or if the alarm is set at a time overlapped when the daylight saving time (summer time) ends, the alarm sounds twice.

To doze for a few more minutes
Press SNOOZE/DATE/SLEEP OFF.
The sound turns off but will automatically come on again after about 10 minutes. Each time you press SNOOZE/DATE/SLEEP OFF, the snooze time changes as follows:

10 → 20 → 30 → 40 → 50 → 60

The maximum snooze time is 60 minutes.
The display shows the snooze time for about 4 seconds and returns to show the current time. When you press SNOOZE/DATE/SLEEP OFF after the current time appears, the snooze time starts from 10 minutes again.

• Even in the event of a power interruption, the snooze function continues to work as above.


To stop the alarm
Press RADIO OFF/ALARM RESET to turn off the alarm.
The alarm will come on again at the same time the next day.
If RADIO OFF/ALARM RESET is not pressed, the alarm sounds continuously for about 60 minutes, and then it will be stop automatically.

To deactivate the alarm
Press ALARM A or B.
Alarm time display disappears.

Note on alarm in the event of a power interruption
In the event of a power interruption, alarm functions work until the battery is empty. However, the following functions differ:
• Backlight will not light up.
• When the alarm sound is set to RADIO or MELODY, it will change to BUZZER automatically.
• If power returns while the alarm sounds, the alarm sounds continuously for about 60 minutes after power returns.
• The alarm buzzes for about one minute, stops temporarily, and will buzz again after about five minutes if neither SNOOZE/DATE/SLEEP OFF or RADIO OFF/ALARM RESET are pressed while the alarm is buzzing.
If the alarm buzzes and stops (either automatically after 1 minute or by pressing SNOOZE/DATE/SLEEP OFF) five times, the alarm is automatically reset in the case of a power interruption. The alarm will buzz for 30 minutes after power is resumed if the power is resumed within 60 minutes from the alarm time.
• If "▭" appears in the display, the alarm will not work in the event of power interruption. Replace the battery if "▭" appears.

Using the NAP timer (count down timer)

The NAP timer sounds the buzzer after a preset time duration.
Press NAP repeatedly until the desired minutes appears. Each press changes the display as follows:

OFF → 10 → 20 → 30
⌐ 120 ← 90 ← 60 ⌐

Two short beeps sound when the display returns to "10." "NAP" and the NAP time appear for about 4 seconds. The NAP timer starts counting down.
When the selected NAP time occurs, the buzzer comes on, and "NAP" in the display flashes.
The buzzer is turned off automatically after about 60 minutes.

To stop the NAP timer
Press NAP or RADIO OFF/ALARM RESET to turn off the buzzer.

To deactivate the NAP Timer
Press NAP.
"NAP" disappears from the display.

Note on NAP time in the event of a power interruption
In the event of a power interruption, the NAP timer continues to work until the battery is empty. However the following functions differ:
• Backlight will not light up.
• Buzzer will stop automatically after 1 minute.
• If the event of a power interruption happens when the buzzer sounds, it will sound 1 minute still, then stop automatically.
• If "▭" appears in the display, the buzzer will not work in the event of power interruption. Replace the battery if "▭" appears.

Setting the sleep timer

You can fall asleep to the radio using the built-in sleep timer that turns off the radio automatically after a preset duration.

Press SLEEP.
The radio turns on. You can set the sleep timer to a duration of 90, 60, 30, or 15 minutes. Each press changes the display as follows:

OFF → 90 → 60
⌐ 15 ← 30 ⌐

Two beeps sound when the display returns to "90".
The radio will play for the duration you set, then shut off.

To turn off the radio before the preset time
Press RADIO OFF/ALARM RESET or SNOOZE/DATE/SLEEP OFF.

To use both sleep timer and alarm
You can fall asleep to the radio and also be awakened by the radio, buzzer or melody alarm at the preset time.

1 Set the alarm. (See "Setting the alarm".)
2 Set the sleep timer. (See "Setting the sleep timer".)